

WN-13
26Nov70

UNIVERSITY OF QUEENSLAND

Computer Centre

WEEKLY NEWSLETTER

Date : Week ended 26 November 1970
Authorization : Director of Computer Centre

1. OPERATIONS

1.1 GE-225 System

Normal Schedule: Maintenance 0700-0900
Operations 0900-2400
Monday 23 November Printer Maintenance 0900-0915

1.2 PDP-10 System

Normal Schedule: Maintenance 0700-0930
Operations 0930-2330
Development as required by systems development group.

Friday	20 November	Parity error, system down 1145-1213 system development 1400-1500
Tuesday	24 November	System Development 1400-1600 System crash 2300, system closed
Wednesday	25 November	System development 1400-1600
Thursday	26 November	System development 1400-1600

2. COMPILER ERRORS

(a) Significant digits for real constants

In the creation by the compiler of real constants, if the number of significant digits exceeds the capability of the machine representation AND an exponent is included THEN an unnormalized quantity nearly zero in magnitude is created.

example:

RAP = 3.1415927376E-3
creates a constant whose value is very nearly zero.

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(b) Common Subscript expressions

In handling similar subscript expressions the compiler does not produce the correct code where the second subscript is a variable and the first is alternately a variable and a constant (see Bulletin vol. 3p. 53).

example:

$A(1,J) = A(N,J)$ will produce incorrect code.

This error also applies to expressions where the arrays referenced in the expression are not the same, provided both arrays are compatibly dimensioned.

example:

```
DIMENSION STEP(10,10), AA(10,10)  
STEP(1,J) = AA(N,J).
```